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1 [Communications of the ACM: Volume 51 Issue 8](#)

August issue Volume 51 Issue 8
2008**Publisher:** ACMFull text available: [pdf\(6.85 MB\)](#) [digital edition](#)Additional Information: [full citation](#)

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Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 0, Citation Count: 0

2 A survey of peer-to-peer content distribution technologies

 Stephanos Androulalis-Theotokis, Diomidis Spinellis
December ACM Computing Surveys (CSUR), Volume 36 Issue 4
2004

Publisher: ACM

Full text available:  pdf(517.77 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 328, Downloads (12 Months): 2294, Citation Count: 23

Distributed computer architectures labeled "peer-to-peer" are designed for the sharing of computer resources (content, storage, CPU cycles) by direct exchange, rather than requiring the intermediation or support of a centralized server or authority. ...

Keywords: Content distribution, DHT, DOLR, grid computing, p2p, peer-to-peer

3 Models and issues in data stream systems

 Brian Babcock, Shivnath Babu, Mayur Datar, Rajeev Motwani, Jennifer Widom
June PODS '02: Proceedings of the twenty-first ACM SIGMOD-SIGACT-SIGART
2002 symposium on Principles of database systems

Publisher: ACM

Full text available:  pdf(257.79 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 179, Downloads (12 Months): 723, Citation Count: 178

In this overview paper we motivate the need for and research issues arising from a new model of data processing. In this model, data does not take the form of persistent relations, but rather arrives in multiple, continuous, rapid, time-varying data ...

4 Bridging the digital divide: storage media + postal network = generic high-bandwidth communication

 Nitin Garg, Sumeet Sobti, Junwen Lai, Fengzhou Zheng, Kai Li, Randolph Y. Wang, Arvind Krishnamurthy
May ACM Transactions on Storage (TOS), Volume 1 Issue 2
2005

Publisher: ACM

Full text available:  pdf(748.97 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 179, Citation Count: 0

Making high-bandwidth Internet access pervasively available to a large worldwide audience is a difficult challenge, especially in many developing regions. As we wait for the uncertain takeoff of technologies that promise to improve the situation, we ...

Keywords: Distributed systems, peer-to-peer systems, postal system, storage systems, the digital divide

5 Specification and implementation of exceptions in workflow management systems

Fabio Casati, Stefano Ceri, Stefano Paraboschi, Giuseppe Pozzi
September 1999 ACM Transactions on Database Systems (TODS), Volume 24 Issue 3

Publisher: ACM

Full text available:  pdf(250.40 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 55, Downloads (12 Months): 278, Citation Count: 19

Although workflow management systems are most applicable when an organization follows standard business processes and routines, any of these processes faces the need for handling exceptions, i.e., asynchronous and anomalous situations that fall outside ...

Keywords: active rules, asynchronous events, exceptions, workflow management systems

6 Synchronization in multimedia data retrieval

Anna Haj Ha*, Cindy X. Xue
January 1997 International Journal of Network Management, Volume 7 Issue 1

Publisher: John Wiley & Sons, Inc.

Full text available:  pdf(487.64 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 88, Citation Count: 1

Synchronization of multiple medium streams in real time has been recognized as one of the most important requirements for multimedia applications based on broadband high-speed networks. This article presents a complete synchronization scheme for distributed ...

7 Optimistic replication



Yasushi Saito, Marc Shapiro

March ACM Computing Surveys (CSUR), Volume 37 Issue 1
2005

Publisher: ACM

Full text available:  pdf(656.72 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
[index terms](#)

Bibliometrics: Downloads (6 Weeks): 113, Downloads (12 Months): 858, Citation Count: 8

Data replication is a key technology in distributed systems that enables higher availability and performance. This article surveys optimistic replication algorithms. They allow replica contents to diverge in the short term to support concurrent work ...

Keywords: Replication, disconnected operation, distributed systems, large scale systems, optimistic techniques

8 Publicly verifiable ownership protection for relational databases



Yingjiu Li, Robert Huijie Deng

March ASI ACCS '06: Proceedings of the 2006 ACM Symposium on Information, 2006 computer and communications security

Publisher: ACM

Full text available:  pdf(332.50 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 151, Citation Count: 0

Today, watermarking techniques have been extended from the multimedia context to relational databases so as to protect the ownership of data even after the data are published or distributed. However, all existing watermarking schemes for relational databases ...

Keywords: certificate, ownership protection, public verifiability, relational database, watermark

9 Designing an inductive data stream management system: the stream mill



experience

Hetal Thakkar, Barzan Mozafari, Carlo Zaniolo

March SSPS '08: Proceedings of the 2nd international workshop on Scalable stream 2008 processing system

Publisher: ACM

Full text available:  pdf(321.81 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 14, Citation Count: 0

There has been much recent interest in on-line data mining. Existing mining algorithms designed for stored data are either not applicable or not effective on data streams, where real-time response is often needed and data characteristics change frequently. ...

Keywords: data stream mining language, data stream mining system, integration of online mining in a DSMS

10 Securing the drop-box architecture for assisted living

 Michael J. May, Wook Shin, Carl A. Gunter, Insup Lee
November 2006 FMSE '06: Proceedings of the fourth ACM workshop on Formal methods in security

Publisher: ACM

Full text available:  [pdf\(490.78 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 96, Citation Count: 1

Home medical devices enable individuals to monitor some of their own health information without the need for visits by nurses or trips to medical facilities. This enables more continuous information to be provided at lower cost and will lead to better ...

Keywords: assisted living, formal methods, formal verification, home health monitoring, security protocol verification

11 BITPEER: continuous subspace skyline computation with distributed bitmap indexes

 Katerina Fotiadou, Evangelia Pitoura
March 2008 DaMaP '08: Proceedings of the 2008 international workshop on Data management in peer-to-peer systems

Publisher: ACM

Full text available:  [pdf\(406.47 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 6, Citation Count: 0

In this paper, we propose a bitmap approach for efficient subspace skyline computation in a distributed setting. Our approach computes extended skylines which have been shown to include all points necessary for computing the skyline at any subspace. ...

12 Partition-based lazy updates for continuous queries over moving objects

 Yu-Ling Hsueh, Roger Zimmermann, Haojun Wang, Wei-Shinn Ku
November 2007 GIS '07: Proceedings of the 15th annual ACM international symposium
on Advances in geographic information systems

Publisher: ACM

Full text available:  pdf(629.93)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 63, Citation Count: 0

Continuous spatial queries posted within an environment of moving objects produce as their results a time-varying set of objects. In the most ambitious case both queries and data objects are dynamic, making it very challenging to find an efficient query ...

Keywords: mobile computing and location-based services

13 Communications of the ACM: Volume 51 Issue 3

 March 2008 issue Volume 51 Issue 3

Publisher: ACM

Full text available:  pdf(7.56 MB)  digital


Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 98, Downloads (12 Months): 483, Citation Count: 0

14 Communications of the ACM: Volume 51 Issue 5

 May 2008 issue Volume 51 Issue 5

Publisher: ACM

Full text available:  pdf(7.28 MB)  digital


Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 355, Downloads (12 Months): 355, Citation Count: 0

15 Communications of the ACM: Volume 51 Issue 1

 January 2008 issue Volume 51 Issue 1

Publisher: ACM

Full text available:  pdf(5.97 MB)  digital


Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 908, Downloads (12 Months): 2862, Citation Count: 0

16 Representing and querying XML with incomplete information

 Serge Abiteboul, Luc Segoufin, Victor Vianu

March 2006 ACM Transactions on Database Systems (TODS), Volume 31 Issue 1

Publisher: ACM

Full text available:  pdf(685.60) 

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 132, Citation Count: 1

We study the representation and querying of XML with incomplete information. We consider a simple model for XML data and their DTDs, a very simple query language, and a representation system for incomplete information in the spirit of the representations ...

Keywords: Incomplete information, XML

17 Digital rights management in a 3G mobile phone and beyond

 Thomas S. Messerges, Ezzat A. Dabbish

October 2003 DRM '03: Proceedings of the 3rd ACM workshop on Digital rights management

Publisher: ACM

Full text available:  pdf(306.59) 

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 43, Downloads (12 Months): 310, Citation Count: 2

In this paper we examine how copyright protection of digital items can be securely managed in a 3G mobile phone and other devices. First, the basic concepts, strategies, and requirements for digital rights management are reviewed. Next, a framework for ...

Keywords: MPEG-21, copyright protection, cryptography, digital content, digital rights management, embedded system, key management, mobile phone, open mobile alliance, security

18 An authorization model for temporal and derived data: securing information

 [portals](#)

Vijayalakshmi Atluri, Avigdor Gal

February 2002 ACM Transactions on Information and System Security (TISSEC), Volume 5 Issue 1

Publisher: ACM

Full text available:  pdf(406.85) 

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 112, Citation Count: 8

The term *information portals* refers to Web sites that serve as main providers of focused information, gathered from distributed data sources. Gathering and disseminating information through information portals introduce new security challenges. ...

Keywords: Access control, authorization administration, derived data, temporal data

19 [Proxy-based acceleration of dynamically generated content on the world wide web: An approach and implementation](#)

Anindya Datta, Kaushik Dutta, Helen Thomas, Debra Vandermeer, Krithi Ramamritham
June ACM Transactions on Database Systems (TODS), Volume 29 Issue 2
2004

Publisher: ACM

Full text available:  pdf(927.23 KB). Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 32, Downloads (12 Months): 197, Citation Count: 1

As Internet traffic continues to grow and websites become increasingly complex, performance and scalability are major issues for websites. Websites are increasingly relying on dynamic content generation applications to provide website visitors with dynamic, ...

Keywords: Edge caching, caching dynamically generated content, fragment caching, implementation, proxy caching, world wide web

20 [MobiPass: a passport for mobile business](#)

Robert Steele, Will Tao
February 2007 Personal and Ubiquitous Computing, Volume 11 Issue 3

Publisher: Springer-Verlag

Full text available:  pdf(302.28 KB). Additional Information: [full citation](#), [abstract](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 30, Downloads (12 Months): 59, Citation Count: 0

While pervasive computing provides a potentially vast business opportunity for many industry participants, it also carries challenges along with it. In this paper, a passport-based architecture has been proposed to convert this unpredictable, highly ...

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